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TITLE: OPERATION METHOD FOR SINTERING

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ABSTRACT:

PURPOSE: To make improvement in the pelletizing property of sintering raw materials and to produce sintered ore with high productivity and product yield by charging the coarse particles generated by the classification of returns into a blast furnace and using the fine grains as the raw materials for pelletizing at the time of pelletizing and sintering the raw materials of the sintered ore for the blast furnace.

CONSTITUTION: The respective powder raw materials are taken at prescribed ratios out of a storage tank 1 for powdery iron ore, limestone, coke, etc., and a storage tank 2 for the returns of the sintered ore and are mixed with water in a primary mixer 3. The mixture is pelletized in a secondary mixer

4 and is charged to a surge hopper 5, from which the mixture is supplied to a sintering machine 6 and is thereby sintered. The sintered ore is properly crushed by a crushing machine 7 and is sieved by a primary screen 10 after cooling with a cooler 8. The plus sieve is charged to the blast furnace and the minus sieve is sieved by a secondary screen 11, the plus sieve of which is charged to the blast furnace and the minus sieve is sieved by a tertiary screen 12. The plus sieve thereof is charged to the blast furnace and the coarse grains 21 of 0.5 to 1.0mm of the minus sieve are blown by air flow 22 and are supplied to the return tank 2 by a conveyor 19. The minus sieve below these sizes is supplied by a conveyor 19 to the secondary mixer 4 and is used as the raw material for pelletizing. The pseudo particle sizes of the sintering raw materials increase and the air transmissivity of the sintering raw material layer is upgraded. The productivity of the sintered ore is thus increased.

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